

Listing of Claims:

1. (Currently Amended) A device for providing an angiographic image (A) of a body structure (1) matching a given heartbeat phase (H_d) and a respiratory phase (R_d), comprising a database (2) with angiograms (3, 3a) of the body structure (1) from different heartbeat phases (H) and respiratory phases (R), and a data processing apparatus linked thereto, which is arranged to carry out the following steps:
 - a) Calculation of a function (f), which describes a change (x) in the body structure (1) dependent upon the respiratory phase (R), which calculation takes place based on from the angiograms (3, 3a) in the database (2);
 - b) Generation of the angiographic image (A) to be produced from at least one angiogram (3a) of the database (2), whose heartbeat phase (H_1) matches the given heartbeat phase (H_d) with the aid of the calculated function (f), wherein a representation of a current image of the body structure (1) is superimposed on the provided angiographic image (A).
2. (Currently Amended) A device as claimed in claim 1, characterized in that the database (2) contains approximately between 10 and 100, ~~and preferably between 30 and 50~~ angiograms (3).
3. (Original) A device as claimed in claim 1, characterized in that the function (f) describes a change in the position of the body structure (1).
4. (Original) A device as claimed in claim 1, characterized in that the data processing apparatus is arranged to determine a change in the position of the body structure (1) by a cross-correlation and/or maximization of the mutual information in relation to a reference angiogram.

5. (Original) A device as claimed in claim 1, characterized in that the data processing apparatus is arranged to leave static image objects discarded in the calculation of the function (f).

6. (Original) A device as claimed in claim 1, characterized in that it includes a display device for superimposed representation of a current image of the body structure (1) and the provided angiographic image (A).

7. (Original) A device as claimed in claim 1, characterized in that it includes an image-forming apparatus, in particular an X-ray apparatus and/or an MRI device.

8. (Original) A device as claimed in claim 1, characterized in that it includes an electrocardiographic device for determining an electrocardiogram.

9. (Original) A device as claimed in claim 1, characterized in that it includes a respiratory phase sensor.

10. (Currently Amended) A method for providing an angiographic image (A) of a body structure (1) matching a given heartbeat phase (H_d) and a respiratory phase (R_d), based on a database (2) with angiograms (3, 3a) of the body structure (1) from different heartbeat phases (H) and respiratory phases (R), including the following steps:

- a) Calculation of a function (f) which describes a change in the body structure (1) dependent upon the respiratory phase (R), which calculation takes place based on the angiograms (3, 3a) in the database (2);
- b) Generation of the angiographic image (A) to be provided from at least one angiogram (3a) of the database (2), whose heartbeat phase (H_1) matches the given heartbeat phase (H_d), with the aid of the calculated function (f), wherein a representation of a current image of the body structure (1) is superimposed on the provided angiographic image (A).

11. (New) A device as claimed in claim 1, characterized in that the database (2) contains approximately between 30 and 50 angiograms (3).